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GIG NETWORK TEST FACILITY (GNTF)



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*Increasing Combat Effectiveness
Through Interoperability*

Joint Interoperability Test Command

INTRODUCTION

Within the Department of Defense (DOD), the Joint Interoperability Test Command (JITC) has the responsibility to certify that all Command, Control, Communications, Computers and Intelligence (C⁴I) systems are interoperable. To conduct interoperability certifications on DOD's C⁴I systems, the JITC is composed of test laboratories, each with a specialized functional area.

The Global Information Grid Network Test Facility (GNTF) consists of several labs that can operate together or separately to test the interoperability of new and modified DefenseSwitchedNetwork (DSN), theDefense Red Switch Network (DRSN), hardware and software. Supporting these primary networks, the GNTF integrates Transport, Crypto, Customer Premise Equipment (CPE), Voice Over Internet Protocol (VoIP) and Video Teleconferencing (VTC) labs into an architecture closely replicating the operational DSN and DRSN.

The test facility supports testing between strategic and tactical systems, and provides voice and data switching equipment to emulate real-world equipment configurations. Occasionally, the GNTF is connected to "exercise" networks, however, it is rarely connected to an operational network. The GNTF is also capable of connecting to other JITC laboratories and facilities, or to commercial facilities.

TESTING RESOURCES

◆ Transport /Edge Switch and Devices

- ◆ Adtran Integrated Access Switch
- ◆ Alcatel 7470
- ◆ Cisco LS 1010
- ◆ ECI DTX-600
- ◆ IDNX/ Proxima
- ◆ Marconi ASX-1000/200BX/TNX-1100
- ◆ Nortel Passport

◆ DSN Switches and Devices

- ◆ Alcatel Omni PCX 4400
- ◆ Avaya DEFINITY, MultiVantage S8700,S8700
- ◆ Cisco Call Manager, Catalyst switches, and routers
- ◆ Lucent 5ESS and iMerge
- ◆ Mitel SX-2000
- ◆ NEC 2400/2000 PBXs
- ◆ Nortel Networks Meridian 1 and MSL-100
- ◆ Nortel Broadband and Tekelec Eagle STPs
- ◆ Redcom IGX
- ◆ Siemens EWSD, KNS 4100, HIPATH 4000
- ◆ Sherecom
- ◆ TACLANE and FASTLANE encryptors
- ◆ Tadiran Coral III PBX

◆ VTC

- ◆ Madge
- ◆ PictureTel
- ◆ Polycom
- ◆ Tandberg
- ◆ VoIP C2 Local Area Networks
- ◆ Avaya Cajun
- ◆ Cisco
- ◆ Enterasys
- ◆ Extreme
- ◆ Foundry
- ◆ Nortel Networks
- ◆ DRSN
- ◆ DDS Family
- ◆ SDS Family

TEST PROCEDURES

The GNTF uses the Generic Switching Test Plan (GSTP) to evaluate interoperability and Military Unique Functions. The GSTP was written to satisfy the Joint Staff-validated requirements as written in the Generic Switching Center Requirement document (GSCR). The GSCR specifies requirements for telecommunication equipment used in DOD networks supporting voice, video and data services.

ADDITIONAL TEST RESOURCES

To support the test environment, the GNTF is equipped with an array of standalone test, measurement and diagnostic equipment.

- ◆ T1 / E1 analyzers
- ◆ Analog, Digital and VoIP call loaders
- ◆ Satellite simulator
- ◆ Error generator
- ◆ ATM and SS7 analyzers
- ◆ ISDN Basic Rate Interface and Primary Rate Interface analyzer

